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| Subject: Mathematics Year 9 Curriculum Map 2022-2023 |
| Terms | **Topics covered** and **core knowledge and skills** | Links to careers | Links to the Knowledge organiser and other additional resources |
| Half term 1 | Fractions, Decimals, Percentages Review:Understand the connections between methods of calculation for fractions, decimals and percentageBe able to apply the four operations to fractions, decimals and percentageProbability:Understand probability is a numerical measure of chance from 0 to 1 inclusiveBe able to calculate the probability of single independent eventsCompare probabilities using a variety of representationsSets, Venns and Sample Space:Understand set notation for intersections, unions, complements and the universal setBe able to identify and interpret sets described by notation and within Venn diagramsUnderstand probability from set notation and Venn diagramsBe able to form and interpret Venn diagrams in the context of probability | Fractions, Decimals, Percentages Review:Fractions - <https://www.youtube.com/watch?v=3pccvFEWO0k> Decimals - <https://www.youtube.com/watch?v=X0Gl72XKiyI>Percentages - <https://www.youtube.com/watch?v=7EB0H1bhGTo>Probability:<https://www.youtube.com/watch?v=cJ1QPiGnGEM>Sets, Venns and Sample Space:<https://www.youtube.com/watch?v=cJ1QPiGnGEM> | This link would take you to the KO on our website<https://classroom.thenational.academy/subjects-by-key-stage/key-stage-3/subjects/maths><https://www.bbc.co.uk/bitesize/subjects/zqhs34j><https://vle.mathswatch.co.uk/vle/><https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/Unit-1-FDP-Review-KO.pdf><https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/Unit-2-Probability-KO.pdf><https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/UNit-3-Sets-and-Venn-KO.pdf> |
| Half term 2 | Solving Simultaneous Equations Algebraically:Be able to solve and manipulate linear equations with one or more variablesUnderstand how equivalence can be maintained while scaling and rearranging equationsUnderstand how variables and unknowns interact within a system of equationsUnderstand that addition and subtraction of simultaneous equations can result in the elimination of a variableBe able to use equivalent equations – through scaling and rearranging – to solve simultaneous equationsUnderstand how substitution can be used to manipulate algebraBe able to reduce the number of variables in an equation through substitutionSolving Simultaneous Equations Graphically:Understand coordinates as solutions to linear equations, including intersections as simultaneous solutionsBe able to solve simultaneous linear equations graphicallyUnderstand parallel lines have no solution as they do not intersectBe able to identify whether a pair of simultaneous equations have a solution algebraically and graphicallyConnect graphical and algebraic representations of linear relationships | Solving Simultaneous Equations:<https://www.youtube.com/watch?v=z5p8MQSGh0w> | <https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/Unit-4-and-5-Simultaneous-Equations-KO.pdf> |